### PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 10 FEB 2006

				WIPO PCT
Applicant's or agent's fi P14522PCDK	e reference	FOR FURTHER A	ACTION	See Form PCT/IPEA/416
		International filing date 03.11.2004	e (day/month/year)	Priority date (day/month/year) 03.11.2003
International Patent Cla A61K7/06	ssification (IPC) o	r national classification and	IPC	
Applicant CORTEX TECHNO	DLOGY APS et	al		
		oreliminary examination r ransmitted to the applica		y this International Preliminary Examining le 36.
2. This REPORT	consists of a tota	al of 5 sheets, including	this cover sheet.	
3. This report is a	lso accompanied	d by ANNEXES, compris	ing:	
a. $\boxtimes$ sent to	the applicant and	d to the International Bur	reau) a total of 2 sh	eets, as follows:
and		ning rectifications autho		en amended and are the basis of this report ty (see Rule 70.16 and Section 607 of the
bey				considers contain an amendment that goes indicated in item 4 of Box No. I and the
sequen	ce listing and/or t	I Bureau only) a total of (tables related thereto, in see Listing (see Section 8	computer readable t	Imber of electronic carrier(s)), containing a form only, as indicated in the Supplemental tive Instructions).
4. This report con	tains indications	relating to the following	items:	
⊠ Box No. I	Basis of the c	pinion		
☐ Box No. II	Priority	<b>F</b>		
☐ Box No. III	•	nment of opinion with reg	ard to novelty, inver	ntive step and industrial applicability
☐ Box No. IV	Lack of unity	·	•	
⊠ Box No. V		atement under Article 35 citations and explanation		velty, inventive step or industrial tatement
☐ Box No. VI	Certain docui	ments cited		
⊠ Box No. VI	Certain defec	ts in the international ap	plication	
⊠ Box No. VI	l Certain obse	vations on the internatio	nal application	
Date of submission of t	he demand		Date of completion	of this report
02.09.2005			09.02.2006	
Name and malling add preliminary examining		ional .	Authorized Officer	Coffiches Patentes.
——————————————————————————————————————	n Patent Office Munich		Drew, C	
<i>O))</i> Tel. +49	89 2399 - 0 Tx: 52	:3656 epmu d		1 80 2300-8404
1 ax. T43			Telephone No. +49	************************************

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/DK2004/000759

	Box	x No. I Basis of the report				
1.		h regard to the <b>language</b> , thi d, unless otherwise indicated	s report is based on the international application in the language in which it wa under this item.			
			slations from the original language into the following language, ranslation furnished for the purposes of:			
		•	der Rules 12.3 and 23.1(b)) Itional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)			
2.	hav	re been furnished to the recei	the international application, this report is based on (replacement sheets which iving Office in response to an invitation under Article 14 are referred to in this e not annexed to this report):			
	Des	scription, Pages				
	1-14	<b>.</b>	as published			
	Clai	Claims, Numbers				
	1-11		received on 21.01.2006 with letter of 19.01.2006			
		a sequence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing			
3.		The amendments have result the description, pages	alted in the cancellation of:			
		☐ the claims, Nos. ☐ the drawings, sheets/figs				
		☐ the sequence listing (specially any table(s) related to se	ecify):			
4.		☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
		<ul> <li>□ the description, pages</li> <li>□ the claims, Nos.</li> <li>□ the drawings, sheets/figs</li> <li>□ the sequence listing (specific page)</li> </ul>				
		☐ any table(s) related to se				
	*	If item 4 applies, so	ome or all of these sheets may be marked "superseded."			

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/DK2004/000759

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1 to 11

No: Claims

Inventive step (IS) Yes: Claims 1 to 11

No: Claims

Industrial applicability (IA) Yes: Claims 1 to 11

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

### Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

#### Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

PCT/DK2004/000759

- 1 The following documents (D) from the international search report will be referred to:
  - D1 WO 01 85182 A2
  - D2 DATABASE WPI Week 200369, Derwent Publications Ltd., London, GB; Class A89, AN 2003-728134, XP002985214 & KR 2003 025 895 A

#### Section I

support for the introduction of the word "Pharmaceutical" at the end of claim 1 can be found at page 8, lines 10 to 14 of the published application. Claim 10 is a combination of claims 10 and 12 of the published application. Dependent claims 2 to 9 and 11 correspond to claims 2 to 9 and 13 of the published application.

#### **Section V**

3 Novelty (Article 33(2) PCT)

None of the documents from the international search report would appear to disclose compositions comprising a deep sea fish extract and a rooibos extract, so that claims 1 to 11 would therefore appear to be novel.

- 4 Inventive Step (Article 33(3) PCT)
- 4.1 D1 relates to a composition for oral administration comprising a fish cartilage extract and a plant extract comprising a hydrophilic antioxidant, *e.g.* grape seed extract, and a hydrophobic antioxidant, *e.g.* tomato extract. The composition is used for reducing signs of aging of the skin.
- 4.2 D2 teaches the use of rooibos extract for the treatment of skin aging.
- 4.3 However, there is no suggestion that the present compositions might find use in the cosmetic treatment of hair loss.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/DK2004/000759

4.4 Present claims 1 to 11 would therefore appear to exhibit an inventive step.

#### **Section VII**

The opening paragraphs of the description do not contain any reference to D2, contr

ary to

Rule

5.1(a

)(ii)

PCT.

#### **Section VIII**

The description has not been adapted to the new claims, clarity (Article 6 PCT).

New claims filed in response to the Written Opinion of 19/12-05

#### **CLAIMS**

- 1. A composition comprising the components:
- 5 an extract of a deep sea fish; and
  - an extract of rooibos (aspalathus linearis); and
  - optionally an extract of bearberry (arctostaphylos uva-ursi);

as active components thereof; and

10.

15

- optionally one or more fillers or ancillary agents conventionally used in the formulation of pharmaceutical compositions.
- 2. A composition according to claim 1, wherein the active component bearberry (arctostaphylos uva-ursi) is omitted.
  - 3. A composition according to claim 1 comprising:
    - an extract of deep sea fish;
    - an extract of rooibos (aspalathus linearis); and
- an extract of bearberry (arctostaphylos uva-ursi).
  - 4. A composition according to any of the claims 1 3 further comprising one or two components selected from the group comprising a horsetail extract (equisetum arvense L.) and a shellfish extract.

25

- 5. A composition according to any of the claims 1 4 further comprising diacetyl boldine.
- 6. A composition according to any of the preceding claims, wherein the composition is in a form suitable for oral administration, such as a tablet, a capsule, a lozenge or a sachet.

New claims filed in response to the Written Opinion of 19/12-05

- 7. A composition according to any of the claims 1-5, wherein the composition is in a form suitable for topical administration to the scalp, such as a lotion, a cream, an emulsion, a foundation, a shampoo, a rinse, a hair liquid, a set lotion or a hair tonic.
- 8. A composition according to claim 2 or 3 in the form of a tablet intended for daily dosage, especially for cosmetic treatment of the skin and further comprising suitable ancillary agents and fillers as well as coating agents.
- 9. A method for the preparation of a composition according to any of the preceding claims, wherein the active components are mixed and via the conventional fillers or ancillary agents, if present, are formulated into the form suitable for the administration desired.
  - 10. A method for the cosmetic treatment of hair loss by administering an effective amount of a composition according to any of the claims 1 8 to a subject in need thereof.
    - 11. A composition according to any of the claims 1-8 for use as a medicament.

20

15